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US EPA RECORDS CENTER REGION 5



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DATE: February 10, 1981
 TO: File
 FROM: Kathleen J. Getty & Rod Bloese *KJG RTB*
 SUBJECT: Ohio/TDD# F5-8007-2A
 Reading/Pristine, Cincinnati Drum, & Carstab

During the periods of January 5-9, 12-16, and 19-21, 1981, several E & E and H.C. Nutting employees drilled eleven (11) borings, installed ten (10) groundwater monitoring wells, and obtained numerous groundwater and soil samples in the subject sites' area. The following is a summary of the activities of the investigative and drilling teams.

January 5, 1981

Rod Bloese, Fred Bauer, & Cynthia Bachunas were granted access to City of Reading property in order to drill boring #5. Ms. Bachunas and Mr. Bloese cleared the well location. Concurrently, Mr. Bauer went to Carstab in order to facilitate future access to that site. Carl Adams and Bob Baldwin, Plant Engineers for Carstab, informed Mr. Bauer that some phone calls needed to be made before permission could be granted. Mr. Bauer agreed to call back later.

The entire field team proceeded to Pristine/Cincinnati Drum, and met with Phillip Band, Plant Manager of Cincinnati Drum. Mr. Band stated that approval for drilling had not been received from Cincinnati Drum attorneys. Jack Salters, Plant Manager of Pristine, was not available. Mr. Band did grant permission to the team to cross Cincinnati Drum property in order to drill monitoring well #11 on the City of Reading property.

The team met with Lieutenant Dan Greishaber of the Reading Fire Department. Mr. Greishaber directed the team to Mr. Cox, City of Reading employee, who would locate the water and gas lines on the city property.

Mr. Bloese was informed at approximately 10:30 a.m. that H.C. Nutting would not drill today due to the very cold weather. The team then returned to the old city dump with Mr. Cox and two (2) other city employees to locate utility lines in the vicinity of proposed boring #5. After locating the utility lines and staking the location of well #5, the group was escorted across Cincinnati Drum property by Mr. Band. The same procedure was followed in staking the well #11 location as for boring #5.

January 6, 1981

Rod Bloese, Fred Bauer, & Cynthia Bachunas met with drillers from H.C. Nutting Company. The first soil sample was taken at 9:30 a.m. All samples were obtained with a two (2)-inch O.D. split spoon sampler. Samples were taken at 0, 2.5, 5 and at five (5)-foot intervals thereafter to a depth of 40 feet. A total of ten (10) non-hazardous soil samples were obtained. Explosimeter and HNu readings were taken at every sample depth. At 40 feet, it was determined that this boring was dry and would produce little, if any water, if completed as a monitoring well. Therefore, the augers were washed with hot water and sprayed with acetone. The team proceeded to Carstab.

At Carstab, the team met with Bob Baldwin. Both the E & E employees and the H.C. Nutting employees signed a USEPA approved security agreement. The team began drilling for monitoring well #1. Samples were taken with a split spoon at 0, 2.5, 5 and at five (5)-foot intervals thereafter to a depth of 20 feet. A total of six (6) samples were obtained. Samples at 5, 10, and 15 ft. were hazardous samples. Samples at 0, 2.5 and 20 were non-hazardous soil samples. Groundwater was hit at approximately 20 feet and drilling was halted. The casing was not set however due to bad weather conditions. Mr. Baldwin was given six (6) split samples. Three (3) pictures were taken of the sampling process. HNu readings were also recorded.

January 7, 1981

Bloese, Bauer and Bachunas plus H.C. Nutting employees returned to Carstab to install monitoring well #1.

Mr. Baldwin was notified of the drill rig moving to the location of proposed monitoring well #2. Drilling began at 10:45 a.m. Split spoon samples were taken at 0, 2.5, 5 and at five (5)-foot intervals thereafter to 27 feet for a total of eight (8) non-hazardous samples. When the "point" was pulled from the augers, a dark gray coarse sandy material with a septic odor was found covering the point. An HNu reading was taken. Pictures were taken of the sampling procedure and HNu readings were recorded during the drilling operation. The augers were cleaned with hot water and steam at Carstab and the crew then moved on to proposed monitoring well #3.

Drilling began for monitoring well #3 at 2:30 p.m. Split spoon non-hazardous soil samples were taken at 0 and 2.5 feet. Split spoon hazardous samples were taken at 5 and 10 feet. Drilling stopped for the day at 15 feet. Pictures were taken and HNu readings were recorded during the drilling process.

January 8, 1981

The drilling for monitoring well #3 continued at 9:40 a.m. with Bloese, Bauer, Bachunas, and H.C. Nutting employees. Sample #5 at 15 feet was

taken as hazardous and sample #6 was taken at 20 feet as a non-hazardous soil sample. Total depth of the boring was 21.5 feet. Augers were cleaned and the team left Carstab for Pristine and Cincinnati Drum.

Bloese and Bachunas arrived at the Cincinnati Drum-Pristine gate and were again denied access to Cincinnati Drum and Pristine properties. However, permission to pass through Cincinnati Drum in order to begin drilling proposed monitoring well #11 was granted. Drilling began at approximately 1:30 p.m. Split spoon samples were taken at 0, 2.5, 5 and at five (5) foot intervals thereafter through 15 feet for a total of five (5) non-hazardous soil samples. Sample #4 at 10 feet was divided into two samples due to a change in soil to make a total of six (6) samples. Total depth of the boring was 16.5 feet. HNu readings were recorded throughout the drilling operation. The team then went to the city garage to clean the augers.

January 9, 1981

Since weather conditions were not favorable for grouting, Bloese, Bachunas, and J.D. Martin of H.C. Nutting decided that grouting the annulus around the monitoring wells should be rescheduled for Monday, January 12, 1981.

Arrangements were made with the advice of Barbara Magel, to give Carstab keys to the monitoring wells, and copies of the E & E boring logs for the three (3) wells located on their property.

January 12, 1981

Bloese, Bauer, and Getty visited U.S. Attorney Sally Whitaker in order to obtain a search warrant for entry to Pristine and Cincinnati Drum. After discussing the situation, the team and Ms. Whitaker decided to try to obtain site access without a warrant.

The team arrived at Pristine. Subsequently, Bloese met with Jeffrey Long. Permission was granted to the team to enter the site and commence drilling. Drilling for monitoring well #4 began at 1:30 p.m. with Bloese, Bauer, Getty and three H.C. Nutting employees in attendance. Split spoon samples were taken at 0, 2.5, 5 and at five (5)-foot intervals thereafter through 25 feet for a total of 8 non-hazardous soil samples. Water was hit at 19 feet. No pictures were taken. HNu readings at this well were taken on January 14.

January 13, 1981

Bloese, Bauer, Getty and two H.C. Nutting employees began drilling for monitoring well #6 at 8:55 a.m. Split spoon samples were taken at 2.5, 5 and 10 feet as hazardous, while samples at 0, 15, and 20 feet were non-

hazardous soil samples. A total of six (6) samples were taken through a depth of 20 feet. HNu readings of this well were taken on January 14, 1981.

With the aforementioned personnel in attendance, drilling for monitoring well #7 began at 10:50 a.m. Samples were taken from 0 to 30 feet in the following manner: at 0 and 2.5 feet split spoon samples were taken, from 5 to 7 feet and 10 to 12 feet three (3)-inch shelby tube samples were taken, at 15, 20 and 26 feet, split spoon samples were taken, and from 28 to 30 feet a three (3)-inch shelby tube sample was taken. All nine (9) samples were non-hazardous soil samples. HNu readings of monitoring well #7 were taken on January 14.

January 14, 1981

Bloese, Bauer, Getty, Bachunas and two (2) H.C. Nutting employees began drilling for monitoring well #8 on Cincinnati Drum property at 8:50 a.m. Split spoon samples were taken at 0, 2.5, 5 and at five (5)-foot intervals thereafter through 20 feet. At 15 feet, two (2) separate samples were taken due to a change in soil material. A total of seven (7) non-hazardous soil samples were obtained. HNu readings were taken throughout the drilling process.

Drilling for monitoring well #9 on Cincinnati Drum property commenced at 10:45 a.m. Soil samples were taken from 0 through 15 feet in the following manner: a split spoon sample was taken at 0 feet and was classified as hazardous, a split spoon non-hazardous soil sample was taken at 2.5 feet, at 5 feet another hazardous split spoon sample was taken, at 10 feet one (1) hazardous and one (1) non-hazardous split spoon samples were taken due to a change in soil material, at 10.0 feet water was hit which a black and oily appearance, and at 15 feet a hazardous split spoon sample was taken. A total of four (4) hazardous and two (2) non-hazardous soil samples were taken. HNu readings were taken throughout the drilling procedure and of the oily black material.

Furthermore, a team consisting of Jerry Oskvarek, John Angelo, and Dan Sewall surveyed surface and top of casing elevation for the following monitoring wells: E1, C1, E2, C2, C3, C4, C5, E3, C6, E9, C7, E8, and E7.

January 15, 1981

Bloese, Getty, Bachunas and two (2) H.C. Nutting employees began drilling for monitoring well #10 on Cincinnati Drum property at 8:15 a.m. Samples were taken at a range of depths from 0 to 16 feet in the following manner: at 0 and 2.5 feet split spoon non-hazardous soil samples were taken, from 5 to 7 feet a three (3)-inch shelby tube sample was taken, and a final three (3)-inch shelby tube sample was taken from 14 to 16 feet. A total of five (5) non-hazard soil samples were taken. Water

level at completion was 9 feet 8 inches. Pictures & HNu readings were recorded.

Furthermore, the team of Jerry Oskvarek, John Angelo, and Dan Sewall surveyed surface and top of casing elevations for the following monitoring wells: C3, E9, E10, E11, E4, E6, and E7. This team along with Bloese, Getty and Bachunas, also took water level readings and then bailed (developed) wells E-1 through E11.

January 19, 1981

Three (3) teams of E & E employees worked on preparations for sampling. One team, consisting of Bloese, Angelo and Richards, measured depths of water and calculated volumes of water for monitoring wells E11, E4, E6, E7, E8, E9, E10, E1, C1, E2, C2, C3, C4, C5, C6, and C7. This team then joined team #2 in bailing monitoring wells in preparation for sampling. Team #2 consisted of Bauer, Lentzen, and Sause. This team bailed wells E11, E4, E6, E9, E10, C1, and E1. Monitoring wells E7 and E8 were dry.

The third team consisted of Bartholomew, Getty and Sewall. They organized all the paperwork for the following day's sampling.

January 20, 1981

Three (3) teams comprised of the same people as previously mentioned completed bailing the monitoring wells. Team #1, led by Bloese, bailed wells E2, C5 and E3. Team #2, led by Bauer, bailed wells C2, C3, C4, C6 and C7. The third team continued preparing sampling paperwork.

After the bailing was completed, sampling began at 10:40 a.m. Attached is a table outlining the sample information. Pictures were taken of the sampling procedure. The sampling team consisted of Bloese, Bauer, Lentzen, Sewall, Angelo, Richards and Sause. Sample paperwork and labeling were done by Bartholomew and Getty.

January 21, 1981

Bloese and Bauer met with Jeffrey Long of Cincinnati Drum and relinquished to him a split set of water samples and the receipt for the samples. Bloese and Bauer met with Jack Salters of Pristine and gave him the samples and corresponding receipt. Finally, they met with Bob Baldwin of Carstab and gave him the water levels and well elevations. Bloese and Bauer informed the Reading Fire Department that the job was completed and that the team would be leaving the area. Lentzen, Sewall, Richards, Bartholomew, and Getty cleaned and inventoried the van and packaged the samples for shipment. Samples were shipped Federal Express to three (3) locations: organics to JTC Environmental Consultants, inorganics to Versar, Inc., and hazardous to NEIC Labs in Denver.

SAMPLING INFORMATION

<u>Well #</u>	<u>Property</u>	<u>Sample Type</u>	<u>Sampler</u>	<u>Time</u>	<u>HNu</u>
E-1	Carstab	Environmental	Rod Bloese	10:40 a.m.	2 ppm
E-2	Carstab	Hazardous	Fred Bauer	11:27 a.m.	None
E-3	Carstab	Hazardous	Fred Bauer	12:00 p.m.	None
E-4	Pristine	Environmental	Bauer & Bloese	2:24 p.m.	None
E-6	Pristine	Total Metals Only	Fred Bauer	2:50 p.m.	None
E-7	Pristine	None	--	--	--
E-8	Cincinnati Drum	None	--	--	--
E-9	Cincinnati Drum	Hazardous	Bauer & Bloese	3:12 p.m.	None
E-10	Cincinnati Drum	Hazardous	Bauer & Bloese	3:15 p.m.	None
E-11	City Well Field	Environmental	Rod Bloese	2:00 p.m.	None
C-1	Carstab	Environmental	Fred Bauer	10:45 a.m.	2 ppm
C-2	Carstab	Hazardous	Fred Bauer	11:32 a.m.	None
C-3	Carstab	Hazardous	Rod Bloese	11:45 a.m., 12:25 p.m. 3:53 p.m.	None
C-4	Carstab	Hazardous	Rod Bloese	11:50 a.m.	None
C-5	Carstab	Hazardous	Fred Bauer	11:55 a.m.	None
C-6	Carstab	Hazardous	Rod Bloese	12:07 p.m.	None
C-7	Carstab	Hazardous	Rod Bloese	12:14 p.m.	None

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